

## Single Package R-410A Air Conditioner

 Project Name: **BRICK NORTH WEST**

 Unit Model #: **ZJ120N15V4KZZ50001**

 Quantity: **2** Tag #: **RTU-1,2 CIRCUS**

 System: **ZJ120N15V4KZZ50001 (2)**

### Cooling Performance

Total capacity	123.5 MBH
Sensible capacity	101.0 MBH
Refrigerant type	R-410A
Efficiency (at ARI)	12.00 EER
Integrated eff. (at ARI)	12.80 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	77.0 °F
Entering WB temp.	63.9 °F
Leaving DB temp.	53.6 °F
Leaving WB temp.	53.3 °F
Part load efficiency	13.4 IPLV
Power input (w/o blower)	8.94 kW
Sound power	90 dB(A)

### Gas Heating Performance

Entering DB temp.	58 °F
Heating output capacity (Max)	144 MBH
Supply air	4000 CFM
Heating input capacity (Max)	180 MBH
Leaving DB temp.	91.3 °F
Air temp. rise	33.3 °F
SSE	80.0 %
Stages	2

### Supply Air Blower Performance

Supply air	4000 CFM
Ext. static pressure	0.5 IWG
Unit static resistance	0.78 IWG
Blower speed	1204 RPM
Max BHP of Motor (including service factor)	3.45 HP
Duct location	Bottom
Motor rating	3.00 HP
Actual required BHP	3.00 HP
Power input	2.79 kW
Elevation	0 ft.
Drive type	BELT
Requires field-supplied drive	true

### Outside/Mixed Air

Outside Air Cfm	400 CFM
Outside Air DB temp.	95 °F
Outsided Air WB temp.	78 °F
Outside Air RH	47.3 %
Return Air CFM	3600 CFM
Return Air DB temp.	75 °F
Return Air WB temp.	62 °F
Return Air RH	48.1 %

### Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	25.6 Amps
Unit max over-current protection	30 Amps

### Dimensions & Weight

Hgt	51 in.	Len	89 in.	Wth	59 in.
Weight with factory installed options	1175 lbs.				

### Clearances

Right	12 in.	Front	36 in.	Back	36 in.
Top	72 in.	Bottom	0 in.	Left	36 in.

Note: Please refer to the tech guide for listed maximum static pressures



### 10 Ton

- York Predator units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

### Unit Features

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Through-the-Curb and Through-the-Base Utility Connections
- Full perimeter base rails with built in rigging capabilities
- Hinged Access Panels
- Slide-Out Condensate Drain Pan
- Scroll Compressors
- Two Stage Cooling
- Solid Core Liquid Line Filter Driers
- Microchannel Condenser Coil
- 144 MBH Output Aluminized Steel, Two Stage Gas Heat
- Unit Ships with 4" Pleated Filters (MERV 13)
- Single Point Power Connection
- HACR Circuit Breaker/Disconnect
- Non-Powered Convenience Outlet
- Phase Monitor
- Return Air Smoke Detector
- Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
- Short Circuit Current: 5kA RMS Symmetrical

### Standard Unit Controller: Simplicity Control Board

- Safety Monitoring - Monitors the high and low-pressure switches, the freezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, safety lockouts and repeated limit switch trips.

### Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors
- Ten (10) Year Warranty - Aluminized Steel Tubular Heat Exchangers





# Predator

## Single Package R-410A Air Conditioner

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Unit Model #: **ZJ120N15V4KZZ50001**

Quantity: **2** Tag #: **RTU-1,2 CIRCUS**

System: **ZJ120N15V4KZZ50001 (2)**

### Factory Installed Options

### ZJ120N15V4KZZ50001

<b>Product Category:</b>	<b>Z</b>	York Predator Single Packaged R-410A Air Conditioner
<b>Product Identifier:</b>	<b>J</b>	12.0 EER / 12.2 IEER
<b>Nominal Cooling Capacity:</b>	<b>120</b>	10 Ton Two Stage Cooling
<b>Heat Type and Nominal Heat Capacity:</b>	<b>N15</b>	144 MBH Output Aluminized Steel, Two Stage Gas Heat
<b>Airflow:</b>	<b>V</b>	3 HP High Static Belt Drive Blower Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
<b>Voltage:</b>	<b>4</b>	460-3-60
<b>Installation Options:</b>	<b>K</b>	HACR Circuit Breaker/Disconnect Return Air Smoke Detector (Bottom return only) Non Powered Convenience Outlet
<b>Additional Options:</b>	<b>ZZ</b>	4" Pleated Filters (MERV 13) Microchannel Condenser Coil Phase Monitor Composite Drain Pan
<b>Product Generation:</b>	<b>5</b>	

### Field Installed Accessories

- 1RC0471 - Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down) (135.0 lbs)
- 2AQ04700324B - Space CO2 Sensor (To maintain CO2 levels in a conditioned space.) (2.0 lbs)
- 2EC04700924 - Dual Enthalpy Control (For Use with Honeywell 7212 Model Actuators Only) (1.0 lbs)
- S1-02815208000 - Blower Sheave for 8.5 and 10 Ton High Static Field Installed Drive (3.0 lbs)
- S1-A52 - Belt for 8.5 and 10 Ton High Static Field Installed Drive (0.4 lbs)
- S1-TBSU32P7Y - York Branded LX Series, Up to 4 Heat / 2 Cool, Electronic 7 Day Programmable (1.0 lbs)

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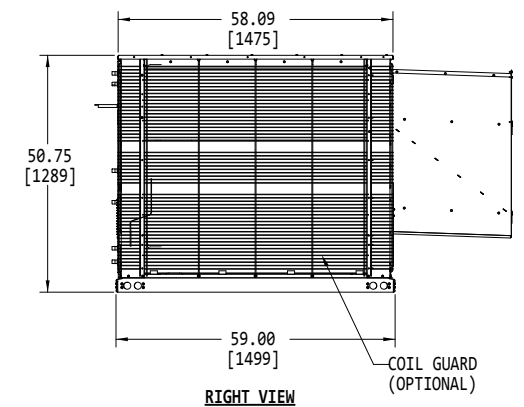
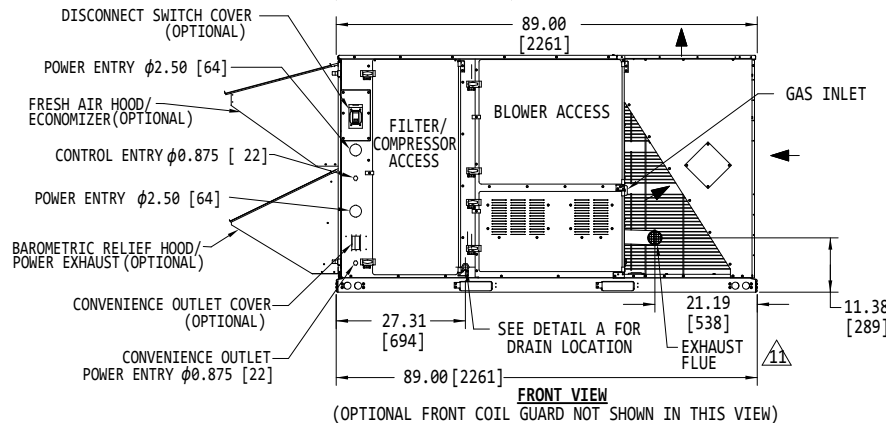
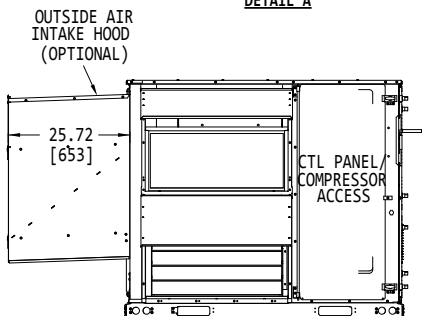
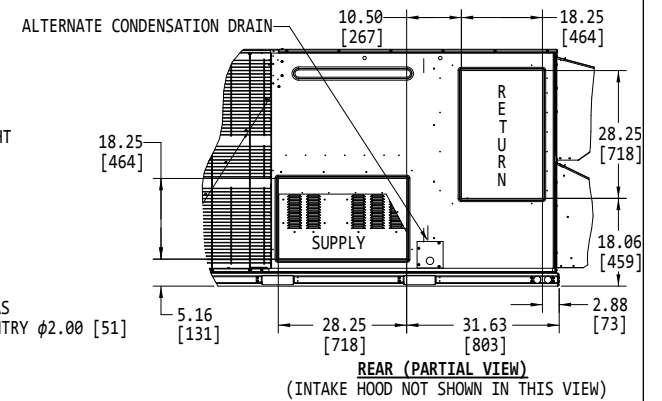
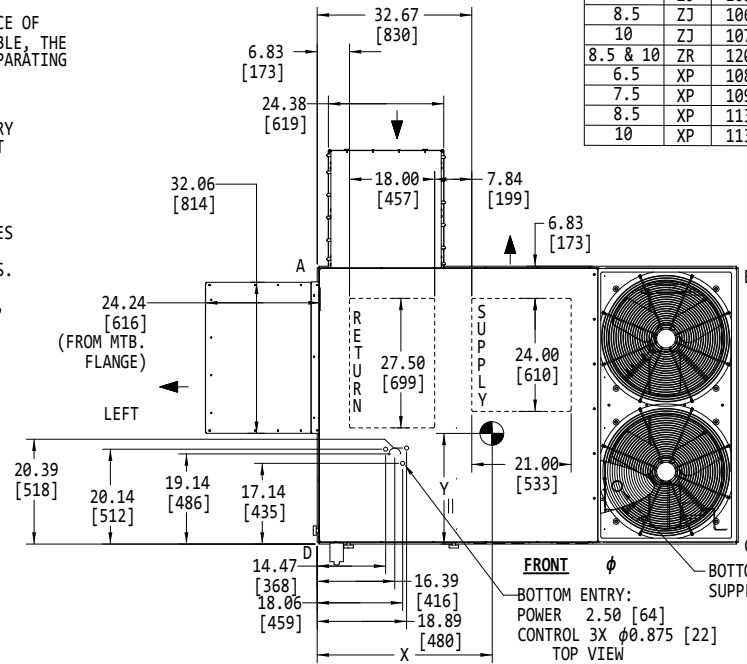
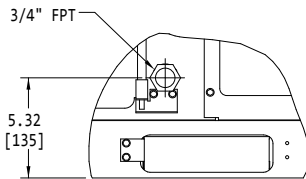
### Consolidated Drawing

**NOTES:**

1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
  - RIGHT SIDE: 12 [305]
  - LEFT SIDE: 36 [915]
  - FRONT: 36 [915]
  - REAR: 36 [915]
  - TOP: 72 [1830]
  - BOTTOM: 0 [0]
4. TO REMOVE THE SLIDE-OUT DRAIN PAN, A REAR CLEARANCE OF 60 in (1525 mm) IS REQUIRED. IF SPACE IS UNAVAILABLE, THE DRAIN PAN CAN BE REMOVED THROUGH THE FRONT BY SEPARATING THE CORNER WALL.
5. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
6. DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
7. SIDE DUCT FLANGES ARE 0.75" HIGH. BOTTOM DUCTS DO NOT HAVE FLANGES.
8. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
9. DIMENSIONS IN [ ] ARE IN MILLIMETERS OR KILOGRAMS.
10. OPTIONAL COIL GUARDS, POWER EXHAUST, GAS HEAT, ECONOMIZER, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND BAROMETRIC RELIEF AND FRESH AIR HOODS SHOWN. EXCEPT XP (HEAT PUMP) UNITS.

TONNAGE	UNIT	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
8.5	ZF	1007 [458]	38 [965]	24 [610]	235 [107]	175 [79]	255 [116]	342 [155]
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10	XP	1135 [515]	38 [965]	25.5 [648]	281 [127]	209 [95]	275 [125]	369 [167]

- DIRECTION OF AIRFLOW
- CENTER OF GRAVITY



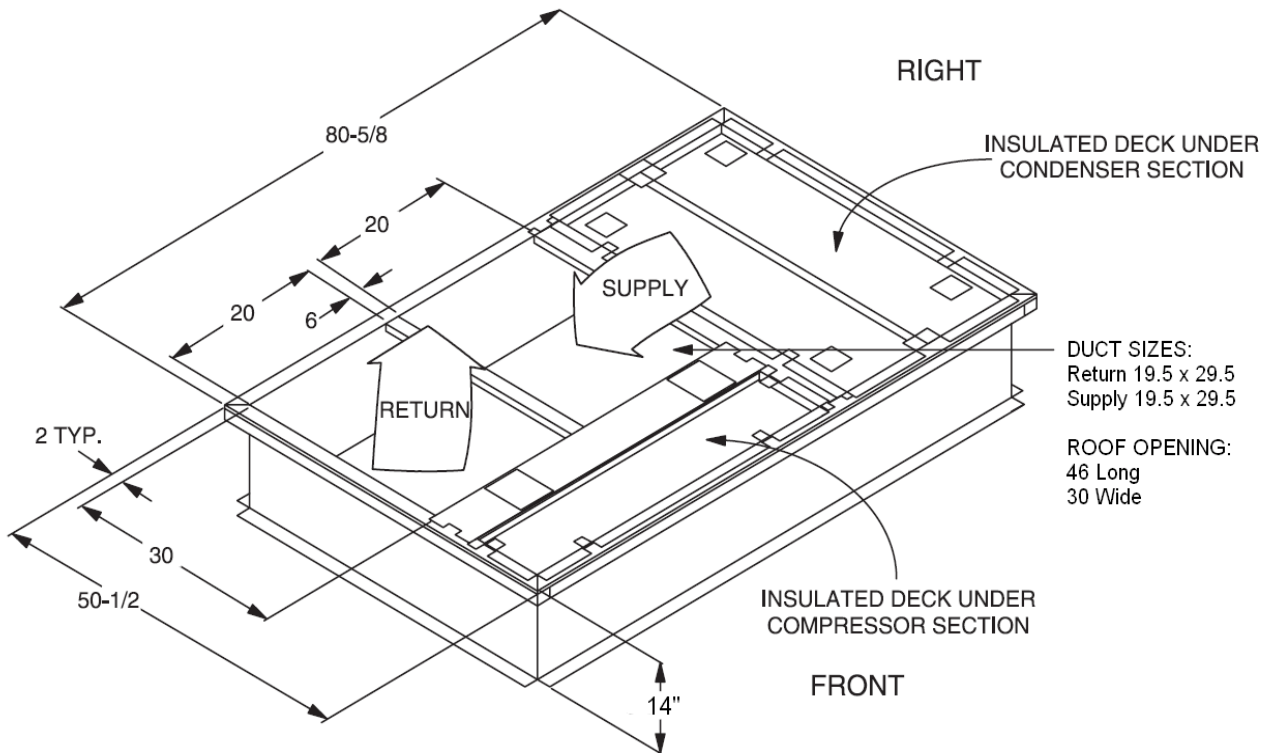
Project Name: **BRICK NORTH WEST**

Unit Model #: **ZJ120N15V4KZZ50001**

Quantity: **2** Tag #: **RTU-1,2 CIRCUS**

System: **ZJ120N15V4KZZ50001 (2)**

**1RC0471 Roof Curb**



\* Supply and Return Air (Including duct support rails) as shown, are typical for bottom duct applications.  
 For location of horizontal duct applications (On rear of unit), refer to Unit Dimensions details.

1RC0471 Roof Curb Dimensions

## Single Package R-410A Air Conditioner

 Project Name: **BRICK NORTH WEST**

 Unit Model #: **ZJ061N09H4KZZ50002**

 Quantity: **3** Tag #: **RTU-3,4,5**

 System: **ZJ061N09H4KZZ50002 (3)**

### Cooling Performance

Total capacity	58.1 MBH
Sensible capacity	47.1 MBH
Refrigerant type	R-410A
Seasonal Efficiency (at ARI)	15.00 SEER
Efficiency (at ARI)	12.20 EER
Ambient DB temp.	95.0 °F
Entering DB temp.	77.0 °F
Entering WB temp.	63.9 °F
Leaving DB temp.	55.2 °F
Leaving WB temp.	54.1 °F
Power input (w/o blower)	4.06 kW
Sound power	84 dB(A)

### Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	97 MBH
Supply air	2000 CFM
Heating input capacity (Max)	120 MBH
Leaving DB temp.	104.9 °F
Air temp. rise	44.9 °F
SSE	81.0 %
Stages	2

### Supply Air Blower Performance

Supply air	2000 CFM
Ext. static pressure	0.5 IWG
Unit static resistance	0.26 IWG
Blower speed	946 RPM
Max BHP of Motor (including service factor)	1.73 HP
Duct location	Bottom
Motor rating	1.50 HP
Actual required BHP	0.92 HP
Power input	0.86 kW
Elevation	0 ft.
Drive type	BELT

### Outside/Mixed Air

Outside Air Cfm	200 CFM
Outside Air DB temp.	95 °F
Outsided Air WB temp.	78 °F
Outside Air RH	47.3 %
Return Air CFM	1800 CFM
Return Air DB temp.	75 °F
Return Air WB temp.	62 °F
Return Air RH	48.1 %

### Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	14.2 Amps
Unit max over-current protection	20 Amps

### Dimensions & Weight

Hgt	42 in.	Len	89 in.	Wth	59 in.	
Weight with factory installed options						875 lbs.

### Clearances

Right	12 in.	Front	36 in.	Back	36 in.
Top	72 in.	Bottom	0 in.	Left	36 in.

Note: Please refer to the tech guide for listed maximum static pressures



### 5 Ton

- York Predator units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

### Unit Features

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Through-the-Curb and Through-the-Base Utility Connections
- Full perimeter base rails with built in rigging capabilities
- Hinged Access Panels
- Slide-Out Condensate Drain Pan
- Reciprocating Compressor
- Single Stage Cooling
- Solid Core Liquid Line Filter Driers
- Microchannel Condenser Coil
- 97 MBH Output Aluminized Steel, Two Stage Gas Heat
- 1.5 HP Standard Static Belt Drive Blower
- Unit Ships with 4" Pleated Filters (MERV 13)
- Single Point Power Connection
- HACR Circuit Breaker/Disconnect
- Non-Powered Convenience Outlet
- Return Air Smoke Detector
- Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
- Short Circuit Current: 5kA RMS Symmetrical

### Standard Unit Controller: Simplicity Control Board

- Safety Monitoring - Monitors the high and low-pressure switches, the freezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, safety lockouts and repeated limit switch trips.

### Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors
- Ten (10) Year Warranty - Aluminized Steel Tubular Heat Exchangers

Project Name: **BRICK NORTH WEST**

 Unit Model #: **ZJ061N09H4KZZ50002**

 Quantity: **3** Tag #: **RTU-3,4,5**

 System: **ZJ061N09H4KZZ50002 (3)**

## Factory Installed Options

### ZJ061N09H4KZZ50002

<b>Product Category:</b>	<b>Z</b>	York Predator Single Packaged R-410A Air Conditioner
<b>Product Identifier:</b>	<b>J</b>	15.0 SEER / 12.2 EER
<b>Nominal Cooling Capacity:</b>	<b>061</b>	5 Ton Single Stage Cooling
<b>Heat Type and Nominal Heat Capacity:</b>	<b>N09</b>	97 MBH Output Aluminized Steel, Two Stage Gas Heat
<b>Airflow:</b>	<b>H</b>	1.5 HP Standard Static Belt Drive Blower Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
<b>Voltage:</b>	<b>4</b>	460-3-60
<b>Installation Options:</b>	<b>K</b>	HACR Circuit Breaker/Disconnect Return Air Smoke Detector (Bottom return only) Non Powered Convenience Outlet
<b>Additional Options:</b>	<b>ZZ</b>	4" Pleated Filters (MERV 13) Microchannel Condenser Coil Composite Drain Pan
<b>Product Generation:</b>	<b>5</b>	

## Field Installed Accessories

- 1RC0471 - Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down) (135.0 lbs)
- 2AQ04700324B - Space CO2 Sensor (To maintain CO2 levels in a conditioned space.) (2.0 lbs)
- S1-TBSU32P7Y - York Branded LX Series, Up to 4 Heat / 2 Cool, Electronic 7 Day Programmable (1.0 lbs)

Project Name: **BRICK NORTH WEST**

 Unit Model #: **ZJ061N09H4KZZ50002**

 Quantity: **3** Tag #: **RTU-3,4,5**

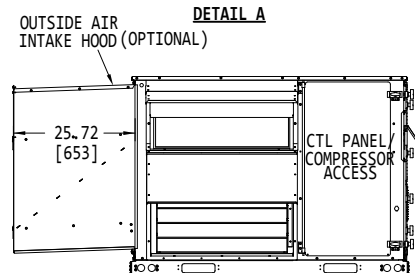
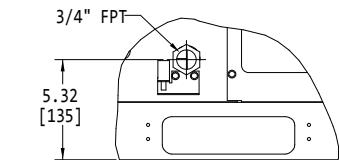
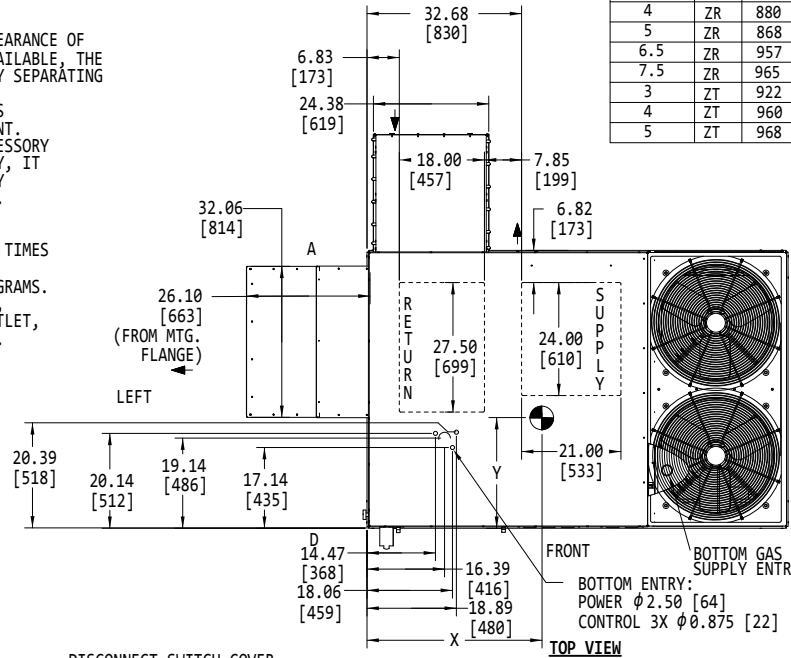
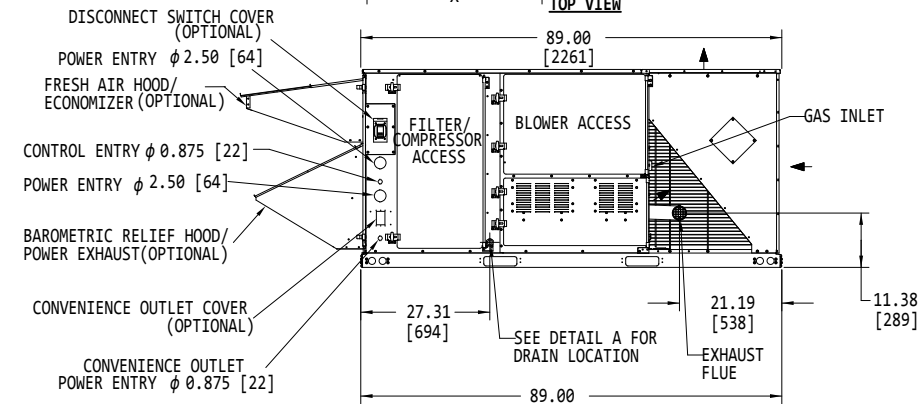
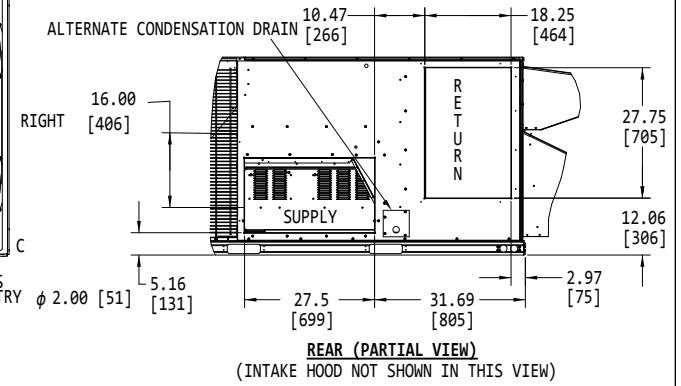
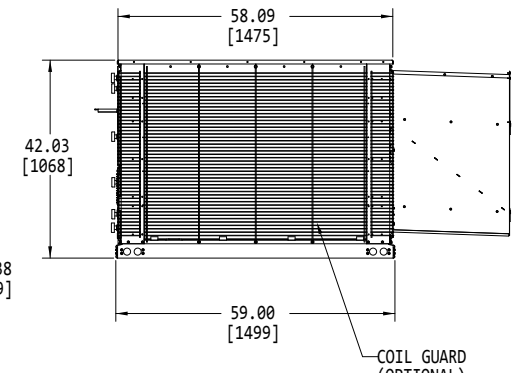
 System: **ZJ061N09H4KZZ50002 (3)**

### Consolidated Drawing

**NOTES:**

1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
  - RIGHT SIDE: 12 [305]
  - LEFT SIDE: 36 [915]
  - FRONT: 36 [915]
  - REAR: 36 [915]
  - TOP: 72 [1830]
  - BOTTOM: 0 [0]
4. TO REMOVE THE SLIDE-OUT DRAIN PAN, A REAR CLEARANCE OF 60 in (1525 mm) IS REQUIRED. IF SPACE IS UNAVAILABLE, THE DRAIN PAN CAN BE REMOVED THROUGH THE FRONT BY SEPARATING THE CORNER WALL.
5. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
6. DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
7. SIDE DUCT FLANGES ARE 0.75" HIGH. BOTTOM DUCTS DO NOT HAVE FLANGES.
8. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
9. DIMENSIONS IN [ ] ARE IN MILLIMETERS OR KILOGRAMS.
10. OPTIONAL COIL GUARDS, POWER EXHAUST, GAS HEAT ECONOMIZER, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND BAROMETRIC RELIEF & FRESH AIR HOODS SHOWN. DELETED
11. 8 TUBE HEAT EXCHANGER IS NOT AVAILABLE FOR 3 & 4 TON UNITS.

DIRECTION OF AIRFLOW  
 CENTER OF GRAVITY


**LEFT VIEW**

**TOP VIEW**

**FRONT VIEW**  
 (OPTIONAL FRONT COIL GUARD NOT SHOWN IN THIS VIEW)

**REAR (PARTIAL VIEW)**  
 (INTAKE HOOD NOT SHOWN IN THIS VIEW)

**RIGHT VIEW**

TONNAGE	UNIT	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
6.5	ZF	860 [390]	38 [965]	24 [610]	200 [91]	149 [68]	218 [99]	292 [133]
7.5	ZF	880 [399]	38 [965]	24 [610]	205 [93]	153 [69]	223 [101]	299 [136]
5	ZH	864 [393]	40 [1016]	26 [660]	210 [95]	171 [78]	217 [99]	266 [121]
6.5 & 7.5	ZH	910 [413]	38 [965]	24 [610]	212 [96]	158 [72]	230 [104]	309 [140]
5	ZJ	770 [349]	40 [1016]	24 [610]	172 [78]	141 [64]	205 [93]	251 [114]
4	ZR	880 [399]	40 [1016]	26 [660]	214 [97]	174 [79]	221 [100]	271 [123]
5	ZR	868 [394]	40 [1016]	26 [660]	211 [96]	172 [78]	218 [99]	267 [121]
6.5	ZR	957 [435]	38 [965]	23 [584]	214 [97]	161 [73]	249 [113]	333 [151]
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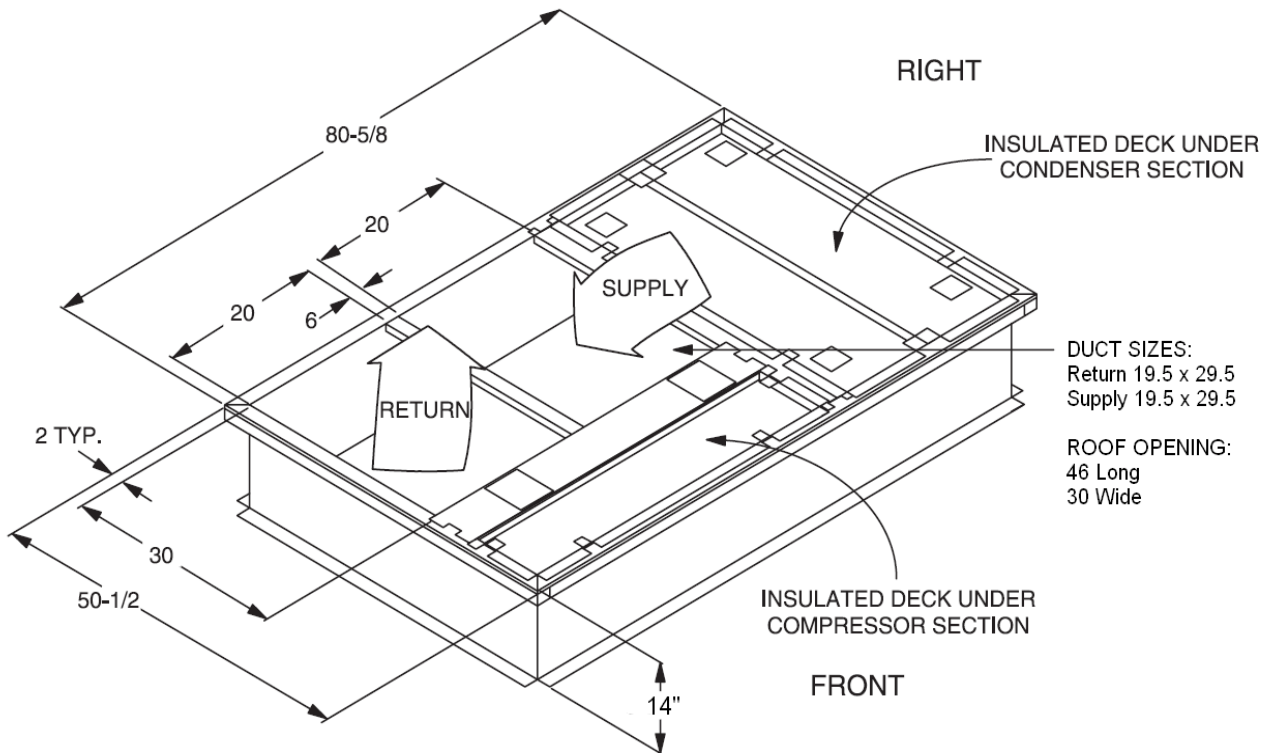
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Quantity: **3** Tag #: **RTU-3,4,5**

System: **ZJ061N09H4KZZ50002 (3)**

**1RC0471 Roof Curb**



\* Supply and Return Air (Including duct support rails) as shown, are typical for bottom duct applications.  
For location of horizontal duct applications (On rear of unit), refer to Unit Dimensions details.

1RC0471 Roof Curb Dimensions